

Page 1 of 8
#11
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**RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/964,678A**

DATE: 04/10/2002
TIME: 09:30:51

Input Set : N:\paola\US09964678A.RAW
Output Set: N:\CRF3\04102002\I964678A.raw

1 <110> APPLICANT: de la Monte, Suzanne
2 Wands, Jack R.
3 <120> TITLE OF INVENTION: Transgenic Animals and Cell Lines for Screening Drugs
4 Effective for the Treatment or Prevention of
5 Alzheimer's Disease
6 <130> FILE REFERENCE: 0609.4370002
C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/964,678A
8 <141> CURRENT FILING DATE: 2001-09-28
9 <150> PRIOR APPLICATION NUMBER: 09/380,203
10 <151> PRIOR FILING DATE: 2000-04-25
11 <150> PRIOR APPLICATION NUMBER: PCT/US98/03685
12 <151> PRIOR FILING DATE: 1998-02-26
13 <150> PRIOR APPLICATION NUMBER: 60/038,908
14 <151> PRIOR FILING DATE: 1997-02-26
15 <160> NUMBER OF SEQ ID NOS: 14
16 <170> SOFTWARE: PatentIn version 3.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 1442
20 <212> TYPE: DNA
21 <213> ORGANISM: Unknown
22 <220> FEATURE:
23 <223> OTHER INFORMATION: AD7c-NTP cDNA
W--> 24 <221> NAME/KEY: CDS
25 <222> LOCATION: (15)..(1139)
26 <223> OTHER INFORMATION:
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32 Asn Gly Ala Ile Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser
33 15 20 25
34 gat tct cct gcc tca gcc tcc cca gta gct ggg att aca ggc atg tgc
35 Asp Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys
36 30 35 40
37 acc cac gct cgg cta att ttg tat ttt tta gta gag atg gag ttt
38 Thr His Ala Arg Leu Ile Leu Tyr Phe Phe Leu Val Glu Met Glu Phe
39 45 50 55 60
40 ctc cat gtt ggt cag gct ggt ctc gaa ctc ccg acc tca gat gat ccc
41 Leu His Val Gly Gln Ala Gly Leu Glu Leu Pro Thr Ser Asp Asp Pro
42 65 70 75
43 tcc gtc tcg gcc tcc caa agt gct aga tac agg act ggc cac cat gcc
44 Ser Val Ser Ala Ser Gln Ser Ala Arg Tyr Arg Thr Gly His His Ala
50 90 140 190 240 290
ENTERED

ENTERED

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Input Set : N:\paola\US09964678A.RAW
Output Set: N:\CRF3\04102002\I964678A.raw

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46	cggtctctgcgtaattttgtggtagaacagggttcactgatg			338
47	Arg Leu Cys Leu Ala Asn Phe Cys Gly Arg Asn Arg Val Ser Leu Met			
48	95	100	105	
49	tgc cca agc tgg tct cct gag ctc aag cag tcc acc tgc ctc agc ctc			386
50	Cys Pro Ser Trp Ser Pro Glu Leu Lys Gln Ser Thr Cys Leu Ser Leu			
51	110	115	120	
52	cca aag tgc tgg gat tac agg cgt gca gcc gtg cct ggc ctt ttt att			434
53	Pro Lys Cys Trp Asp Tyr Arg Arg Ala Ala Val Pro Gly Leu Phe Ile			
54	125	130	135	140
55	tta ttt ttt tta aga cac agg tgt ccc act ctt acc cag gat gaa gtg			482
56	Leu Phe Phe Leu Arg His Arg Cys Pro Thr Leu Thr Gln Asp Glu Val			
57	145	150	155	
58	cag tgg tgt gat cac agc tca ctg cag cct tca act cct gag atc aag			530
59	Gln Trp Cys Asp His Ser Ser Leu Gln Pro Ser Thr Pro Glu Ile Lys			
60	160	165	170	
61	cat cct cct gcc tca gcc tcc caa gta gct ggg acc aaa gac atg cac			578
62	His Pro Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Lys Asp Met His			
63	175	180	185	
64	cac tac acc tgg cta att ttt att ttt aat ttt ttg aga cag			626
65	His Tyr Thr Trp Leu Ile Phe Ile Phe Ile Phe Asn Phe Leu Arg Gln			
66	190	195	200	
67	agt ctc aac tct gtc acc cag gct gga gtg cag tgg cgc aat ctt ggc			674
68	Ser Leu Asn Ser Val Thr Gln Ala Gly Val Gln Trp Arg Asn Leu Gly			
69	205	210	215	220
70	tca ctg caa cct ctg cct ccc ggg ttc aag tta ttc tcc tgc ccc agc			722
71	Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Leu Phe Ser Cys Pro Ser			
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73	ctc ctg agt agc tgg gac tac agg cgc cca cca cgc cta gct aat ttt			770
74	Leu Leu Ser Ser Trp Asp Tyr Arg Arg Pro Pro Arg Leu Ala Asn Phe			
75	240	245	250	
76	ttt gta ttt tta gta gag atg ggg ttc acc atg ttc gcc agg ttg atc			818
77	Phe Val Phe Leu Val Glu Met Gly Phe Thr Met Phe Ala Arg Leu Ile			
78	255	260	265	
79	ttg atc tct gga cct tgt gat ctg cct gcc tcg gcc tcc caa agt gct			866
80	Leu Ile Ser Gly Pro Cys Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala			
81	270	275	280	
82	ggg att aca ggc gtg agc cac cac gcc cgg ctt att ttt aat ttt tgt			914
83	Gly Ile Thr Gly Val Ser His His Ala Arg Leu Ile Phe Asn Phe Cys			
84	285	290	295	300
85	ttg ttt gaa atg gaa tct cac tct gtt acc cag gct gga gtg caa tgg			962
86	Leu Phe Glu Met Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp			
87	305	310	315	
88	cca aat ctc ggc tca ctg caa cct ctg cct ccc ggg ctc aag cga ttc			1010
89	Pro Asn Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Leu Lys Arg Phe			
90	320	325	330	
91	tcc tgt ctc agc ctc cca agc agc tgg gat tac ggg cac ctg cca cca			1058
92	Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Gly His Leu Pro Pro			
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Input Set : N:\paola\US09964678A.RAW
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94	cac ccc gct aat ttt tgt att ttc att aga ggc ggg gtt tca cca tat	1106
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96	350 355 360	
97	ttg tca ggc tgg tct caa act cct gac ctc agg tgaccacac gcctcagcct	1159
98	Leu Ser Gly Trp Ser Gln Thr Pro Asp Leu Arg	
99	365 370 375	
100	tccaaagtgc tggattaca ggcgtgagcc acctcaccca gccggctaataaataaaaa	1219
101	aaatatgttag caatgggggg tcttgcataat ttgcccaggc tggctcaaa cttctggctt	1279
102	catgcaatcc ttccaaatga gccacaacac ccagccagtc acatttttta aacagttaca	1339
103	tctttatttt agtataactag aaagtaataac aataaacatg tcaaacctgc aaattcagta	1399
104	gtaacagagt tctttataaa ctttaaaca aagctttaga gca	1442
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111	<223> OTHER INFORMATION: AD7c-NTP cDNA	
112	<400> SEQUENCE: 2	
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115	Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro Ala	
116	20 25 30	
117	Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys Thr His Ala Arg	
118	35 40 45	
119	Leu Ile Leu Tyr Phe Phe Leu Val Glu Met Glu Phe Leu His Val Gly	
120	50 55 60	
121	Gln Ala Gly Leu Glu Leu Pro Thr Ser Asp Asp Pro Ser Val Ser Ala	
122	65 70 75 80	
123	Ser Gln Ser Ala Arg Tyr Arg Thr Gly His His Ala Arg Leu Cys Leu	
124	85 90 95	
125	Ala Asn Phe Cys Gly Arg Asn Arg Val Ser Leu Met Cys Pro Ser Trp	
126	100 105 110	
127	Ser Pro Glu Leu Lys Gln Ser Thr Cys Leu Ser Leu Pro Lys Cys Trp	
128	115 120 125	
129	Asp Tyr Arg Arg Ala Ala Val Pro Gly Leu Phe Ile Leu Phe Phe Leu	
130	130 135 140	
131	Arg His Arg Cys Pro Thr Leu Thr Gln Asp Glu Val Gln Trp Cys Asp	
132	145 150 155 160	
133	His Ser Ser Leu Gln Pro Ser Thr Pro Glu Ile Lys His Pro Pro Ala	
134	165 170 175	
135	Ser Ala Ser Gln Val Ala Gly Thr Lys Asp Met His His Tyr Thr Trp	
136	180 185 190	
137	Leu Ile Phe Ile Phe Ile Phe Asn Phe Leu Arg Gln Ser Leu Asn Ser	
138	195 200 205	
139	Val Thr Gln Ala Gly Val Gln Trp Arg Asn Leu Gly Ser Leu Gln Pro	
140	210 215 220	
141	Leu Pro Pro Gly Phe Lys Leu Phe Ser Cys Pro Ser Leu Leu Ser Ser	
142	225 230 235 240	
143	Trp Asp Tyr Arg Arg Pro Pro Arg Leu Ala Asn Phe Phe Val Phe Leu	

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Input Set : N:\paola\US09964678A.RAW
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145	Val Glu Met Gly Phe Thr Met Phe Ala Arg Leu Ile Leu Ile Ser Gly		
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147	Pro Cys Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly		
148	275	280	285
149	Val Ser His His Ala Arg Leu Ile Phe Asn Phe Cys Leu Phe Glu Met		
150	290	295	300
151	Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp Pro Asn Leu Gly		
152	305	310	315
153	Ser Leu Gln Pro Leu Pro Pro Gly Leu Lys Arg Phe Ser Cys Leu Ser		
154	325	330	335
155	Leu Pro Ser Ser Trp Asp Tyr Gly His Leu Pro Pro His Pro Ala Asn		
156	340	345	350
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165	<213> ORGANISM: Unknown		
166	<220> FEATURE:		
167	<223> OTHER INFORMATION: Incorrect sequence of AD7c-NTP DNA		
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171	atgtatgtgg attacaggca ttgtcaccac gctcggttaa ttttgtattt ttttttagta	180	
172	gagatggagt ttaactccat ttgggtcagg ctgggtctga actcccgacc tcagatgtac	240	
173	tccctgtctcg gcctgccc aa agtgcgtgaga ttacaggcat gagccaccat gccccgcctc	300	
174	tgcctggcta attttgtgg tagaaacagg gtttcactga tggtgccc aa gctgtctcc	360	
175	ttagtcaag cagtcaccc tcgtcagct cccaaagtgc tgggattaca ggcgtcagcc	420	
176	gtgcctggcc ttttattttt attttttta agacacaggt gtaccactt taccaggat	480	
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179	tttatttttta ttttaattt tttgagacag agtctcactc tgcacccag gctggagtgc	660	
180	agtggcgcaa tcttggctca ctgcaacctc tgcctcccg gttcaagtttta ttctcctgcc	720	
181	ccagcctctt gatgtactt gactacaggc gccaccac gctagctaat tttttgtat	780	
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183	gatctgcctg cctcggctca cccaaagtgc tgggattaca ggtcggtact ccacgcccgc	900	
184	ctatttttaa tttttgttg tttgaaatgg aatctcactc ttttacccag gtcggagtgc	960	
185	aatggcaaat ctggctact cgcacccctt gcctcccg gg tcaagcgatt ctccgtctc	1020	
186	agcctcccaa gcagctggaa ttacggacc tgcaccacac cccgctaatt tttgtat	1080	
187	cattagaggc gggtttacca tatttgcag gctgggtctc aaactcctga ctcagggtga	1140	
188	cccacctgcc tcagccttcc aaagtgcgtgg gattacaggc gtggccacc tcacccagcc	1200	
189	ggcttaattt gaaaaaaa tatgttagcaa tgggggtctg ctatgttgcc caggctggc	1260	
190	tcaaacttct ggcttcagtc aatccttcca aatgagccac aacacccagc cagtcacatt	1320	
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192	c		
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RAW SEQUENCE LISTING
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Input Set : N:\paola\US09964678A.RAW
Output Set: N:\CRF3\04102002\I964678A.raw

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195 <211> LENGTH: 1418
196 <212> TYPE: DNA
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198 <220> FEATURE:
199 <223> OTHER INFORMATION: Incorrect sequence of AD7c-NTP cDNA
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203 agtaggctgg gattacaggc atgtgcacca cgctcggtta attttgtatt ttttttagt 180
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206 ggctaatttt tggtagaa acagggtttc actgatgtgc ccaagctggt ctccctgagct 360
207 caagcagtcc acctgcctca gcctccaaa gtgctggat tacaggcgtg cagccgtgcc 420
208 tggcctttt attttttttt tttaagaca caggtgtccc actcttaccc agatgaagt 480
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211 ttttattttt aatttttttga gacagagtct caactctgtc acccaggctg gagtgcagtg 660
212 gcgcacatctt ggctcaactgc aacctctgc tcccgggttc aagttattct cctgccccag 720
213 cctcctgagt agctggact acaggcgccc accaccccta gtaattttt ttgtattttt 780
214 agtagagat ggggttcacc atgttcgcca ggttcatgtc agatctttt accttgcgtat 840
215 ctgcctgcct cggcctccca aagtgtggg attacaggac gtgacgccc ccgccccggcc 900
216 tatttttaat ttttgggtt ttgaaatggg atctcaactt ttacccagg ctggagtgc 960
217 atggccaaat ctggctcac tgcaacctct gcctccggg ctcaagcgat ttcctgtct 1020
218 cagcctccca agcagctggg attacggca cctgcaccac acccccgtaa tttttgtatt 1080
219 ttcatttagag ggggggtttc accatatttg tcaggctggt ctcaaactcc tgacccagg 1140
220 tgacccaccc gcctcaagct tccaaagtgc tgggattaca ggcgtgacgc ctcacccagg 1200
221 cggctaattt agataaaaaa atatgtagca atgggggttc ttgctatgtt gcccaggctg 1260
222 gtctcaaact tctggcttca tgcaatcctt ccaaattgagc cacaacaccc agccagtcac 1320
223 atttttaaac agttacatct ttatttttagt atactagaaa gtgatacgat aacatggcgg 1380
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227 <211> LENGTH: 22
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: AD7c-NTP oligonucleotide
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238 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
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241 <400> SEQUENCE: 6
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244 <210> SEQ ID NO: 7
245 <211> LENGTH: 20
246 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : N:\paola\US09964678A.RAW
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 11
Seq#:13; N Pos. 11
Seq#:14; N Pos. 11

VERIFICATION SUMMARY
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Input Set : N:\paola\US09964678A.RAW
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L:7 M:270 C: Current Application Number differs, Wrong Format
L:24 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:27 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:295 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:298 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:307 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:310 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:319 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:322 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0